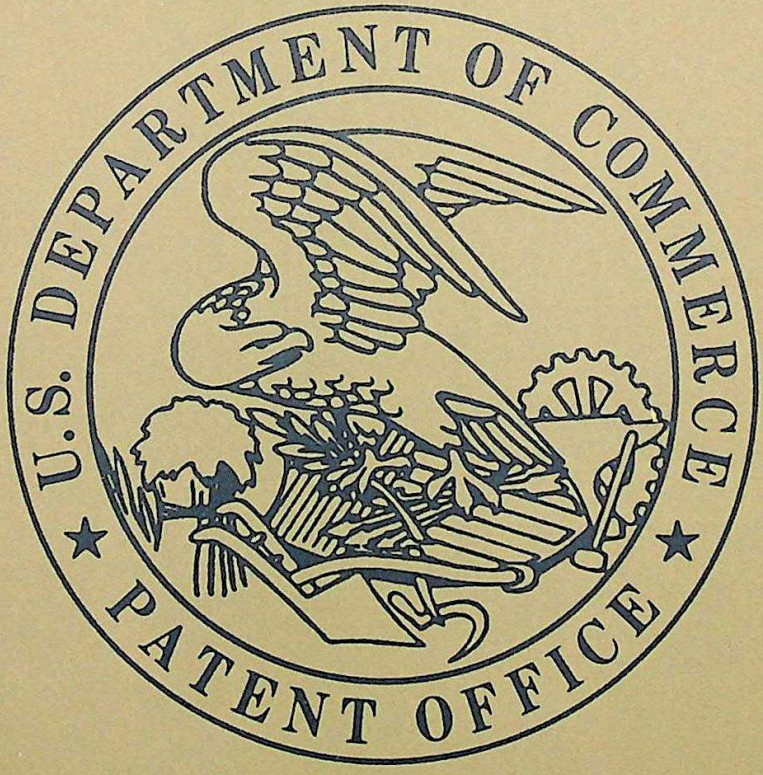
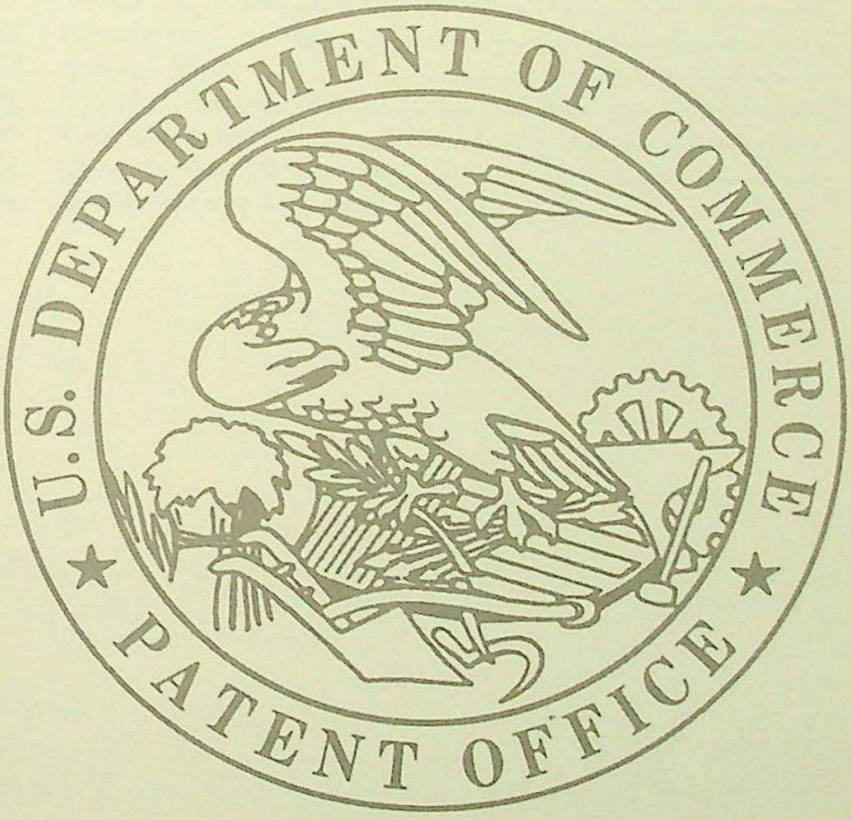
COMMISSIONER OF PATENTS ANNUAL REPORT FISCAL YEAR 1973



COMMISSIONER OF PATENTS
ANNUAL REPORT
FISCAL YEAR 1973

U.S. DEPARTMENT OF COMMERCE / PATENT OFFICE



U.S. DEPARTMENT OF COMMERCE
Frederick B. Dent, Secretary

PATENT OFFICE
Robert Gottschalk, Commissioner

1973

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Commissioner's Annual Report Fiscal Year 1973

I. Functions

The Patent Office administers the patent laws enacted by Congress (Title 35, United States Code) in accordance with Article 1, Section 8 of the Constitution of the United States and also administers the Federal trademark laws (Title 15, Sections 1051 and 1127, United States Code).

In discharging its duties relating to patents, the Office examines applications and grants patents when applicants are so entitled; publishes and disseminates patent information; maintains search files of United States and foreign patents; maintains a scientific library and a public search room; supplies copies of patents and related official documents to the public and records assignments of patents.

In discharging its duties relating to trademarks, the Office examines, registers, and maintains records of trademarks used in commerce which qualify for protection under the Federal trademark laws.

II. Fiscal 1973 Highlights

- A new record was set by completing the examination of 115,047 applications.
- The average pendency time of a patent application (the time required to process an application to completion) was reduced from 25 months during fiscal year 1972 to 24 months for fiscal year 1973.
- Another record was set for the highest number of trademark applications processed to completion in the history of the Office, 35,878 disposals.
- For the first time in many years, the working inventory of trademark applications decreased rather than increased.
- The Patent Cooperation Treaty was sent to the Senate by the President for its advice and consent.

- The Trademark Registration Treaty was signed by the United States in Vienna, Austria.
- Computer oriented inventory control systems for both patent and trademark application processing came "on stream".
- Improvement in services to the public was documented by a marked decrease in letters of complaint.
- A major internal reorganization of the Patent Office was substantially completed.

III. Patent Examining Operations

The Patent Examining Corps set a new record this fiscal year by completing the examination of the largest number of patent applications in the history of the Office, 115,047 disposals.

During this fiscal year, 101,391 new applications were received. Patent applications are being acted upon in a "first-action" by the examiners in an average of nine months after filing. Total pendecy has been reduced from 25 months for fiscal year 1972 to 24 months for fiscal year 1973. In 1964 the pendency was three years.

IV. Board of Appeals and Board of Patent Interferences

The Board of Appeals received 3479 new cases and decided 2599 cases for a net increase of cases pending of 880.

During the fiscal year, the Board of Patent Interferences received 383 new cases and decided 372 cases for a net increase in cases pending before the board of 11 cases.

V. Trademark Examining Operation

Trademark Examining Divisions processed a record 35,862 trademark applications to completion during the fiscal year, and received 35,128 new applications, decreasing the working inventory of trademark applications by 734. At the end of the fiscal year, new applications for registration of marks were being acted upon about nine months after the date of filing.

Recommendations made at a February 1973 meeting of the Public Advisory Committee for Trademark Affairs, which have already been acted upon provide for: publishing in the United States Patents Quarter-

ly of all significant decisions of the Trademark Trial and Appeal Board concerning interlocutory issues, and of selected decisions on petitions to the Commissioner; additional classification training for trademark examiners; and the listing of both the international and the current classification systems for information purposes in the Trademark Rules of Practice pamphlet.

During fiscal 1973, the Trademark Trial and Appeal Board decided 511 cases and received 2020 cases. Of those decided, 385 were in adversary proceedings, and 126 were ex parte appeals. An additional 1170 adversary proceedings were disposed of during interlocutory stages and 134 ex parte appeals were disposed of prior to hearing.

VI. Patent and Trademark Legislation

Renewed efforts were made toward a general revision of the patent laws after the 92nd Congress adjourned without enacting pending patent law revision legislation. The Departments of Commerce and Justice met with White House officials in an effort to adopt a comprehensive revision of the existing patent laws to be forwarded to Congress by the Administration. A bill is expected to be introduced in the 93rd Congress.

At the request of the Department of Commerce, legislation was introduced proposing three changes in the Trademark Act of 1946. These changes would extend the time available for filing oppositions to the registration of trademarks; eliminate the requirement for filing reasons of appeal in the Patent Office when taking an appeal to the Court of Customs and Patent Appeals; and authorize the assessment of attorneys fees in trademark infringement cases.

Legislation was introduced in May 1973 which would change the name of the Patent Office to the Patent and Trademark Office and the title of the Commissioner of Patents to the Commissioner of Patents and Trademarks.

As part of the Administration's trade bill, the Patent Office and the Department of Commerce assisted in the preparation of legislation which would make extensive changes in section 337 of the Tariff Act. This was introduced as part of the Trade Reform Act of 1973, H.R. 6767. It would provide for a quick and inexpensive determination by the Tariff Commission of whether an important product infringed a United States patent. An appeal from the Tariff Commission's decision could be taken to the Court of Customs and Patent Appeals.

Legislation implementing the Stockholm Revision of the Paris Convention, permitting priority to be based on inventor's certificates, was passed by the Congress and signed into law by the President on July 28, 1972,

as P.L. 92-358. This law facilitates patent filings in the United States by applicants residing in certain Eastern European countries, including the Soviet Union.

VII. International Activities

The Patent Cooperation Treaty was forwarded to the Senate for its advice and consent to ratification on September 12, 1972. The Treaty is designed to assist United States citizens in obtaining patent protection abroad, and to reduce duplication of effort by the U.S. Patent Office and the patent offices of other countries.

The Strasbourg Agreement and documents of recommendation for advice and consent to ratification were forwarded by the President to the Senate on March 22, 1973. This Agreement establishes a common classification for patents known as the International Patent Classification.

The United States signed the Trademark Registration Treaty at the conclusion of a Diplomatic Conference in Vienna, Austria in June, 1973. The purpose of this Treaty is to establish an alternative international filing system whereby trademarks can be protected internationally more quickly, at less cost and with fewer complications than under the present national procedures.

On January 26, 1973, the United States ratified the Nice Agreement Concerning the International Classification of Goods and Services for the Purposes of the Registration of Marks. This Agreement establishes and maintains an international trademark classification system which is now in use in over 60 countries as either their primary or secondary system of trademark classification. On the same day, the United States ratified the Locarno Agreement Establishing an International Classification for Industrial Designs.

An Agreement on Exchanges between the U.S.S.R. and the United States was signed in Moscow on April 11, 1972, which included a Patent Office proposal for a follow up on the exchange held in 1971 on patents and licensing. Pursuant to this Agreement, a proposal for the program of the U.S. delegation was forwarded to the U.S.S.R. in March, 1973. The visit of the U.S. delegation was confirmed and was set to take place July 10-28. A return Soviet visit is scheduled for later in the year.

VIII. Judicial Matters

The United States Supreme Court granted the Government's petition for certiorari in *Gottschalk* v. *Benson,* a case involving the patentability

of computer software. Following argument of the appeal late in 1972, the Court held in favor of the Patent Office ruling of unpatentability.

The United States District Court for the Eastern District of Virginia in *Sears* v. *Gottschalk* rejected an attempt to compel the Patent Office to open its files of abandoned patent applications to public inspection. The Court's opinion notes that many abandoned applications contain trade secrets which would be compromised should the public have such access.

In an effort to strengthen the presumption of validity of issued patents, the Patent Office published, on June 4, a proposed amendment of its rules to permit interested individuals to protest the grant of a patent and submit to the Office additional evidence, which may not have been available to the Office, bearing on the question of patentability. The proposal provides for a voluntary waiver of secrecy by the patent applicant, and the opening of his application to the public, prior to the issue of a patent, for a limited time during which protests may be filed. The hearing on this Rule change was scheduled for October 31, 1973.

IX. Systems Improvements

As patent and trademark application receipts increase in volume and capacity, control over the inventory of applications in process has become more difficult. To improve this control, two inventory-control Computer systems came "on-stream" during this fiscal year: a Patent Application Locator and Monitoring (PALM) system; and a Trademark Reporting and Monitoring (TRAM) system. Both PALM and TRAM are designed to become integral parts of a total management information system which will provide the Patent Office with control data over both program performance and utilization of resources.

A fast retrieval patent classification information system integrating computer and microfilm technologies has been installed and is operational. The system provides less than five-second response after keyboard entry to queries from Patent Office personnel and the public concerning the current classification of individual United States patents.

Investigation into the feasibility of both patent and trademark computer searching continues.

X. Reorganization

A major reorganization of the Patent Office became effective on December 15, 1972. The organizational changes provide: (1) greater em-

phasis on trademark and legal activities of the Office; (2) a more balanced span of control among the Assistant Commissioners; (3) strengthened management of Office resources; (4) improved patent examining processing through closer ties with classification activities; (5) new direction of systems design, and research and development functions.

XI. Operating Cost and Income

Funds available to the Patent Office for the fiscal year 1973 were $67,554,641, comprised of $67,500,000 regular appropriation and $54,641 received as reimbursements. Program costs for this period were $64,535,925. Total amount obligated during fiscal year 1973 was $67,288,764 or 99.61 per cent of new obligational authority.

Compensation and benefits for an average of 2,828 employees accounted for 76 per cent of total operating expenses; printing and reproduction for 16 per cent; and all other operating costs for the remaining 8 per cent.

Income from fees for fiscal year 1973 was $26,118,540. Balances in customer advance deposit accounts as of June 30, 1973 amounted to $1,611,232, an increase of $37,470 over the prior fiscal year end. Net income for 1973 was equivalent to 40 per cent of the program cost.

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STATISTICAL DATA

1. Pending Patent and Design Applications as of June 30, 1973

Status	Patents including plants and reissues	Designs
Pre-examination	30,515	726
Under examination:		
Awaiting first action by examiners	47,679	4,871
Amended awaiting action by examiners	12,304	86
Awaiting response by applicant	72,295	1,961
In interference	1,020	8
On appeal	3,790	26
Total under examination	137,088	6,952
Post examination:		
Awaiting notice of allowance	1,424	78
Awaiting payment of issue fee	26,035	2,413
D-10's (secret cases in condition for allowance)	3,124	0
Total in post examination	30,583	2,491
In issue process:		
In Patent Office (fee paid prior to June 30)	1,921	53
With printer	12,280	694
Total in issue process	14,201	747
Total in Office	212,387	10,916

2. Summary of Patent and Design Examining Activities, Fiscal Years 1971–73

Item	1971	1972	1973	Annual average 1964-73
Patents				
Applications filed:				
General, mechanical chemical, electrical	103,733	102,663	100,900	94,636
Plants	161	166	109	122
Reissues	266	293	382	289
Total	104,160	103,122	101,391	95,047
Applications allowed	74,403	69,890	77,093	68,546
Applications abandoned	34,842	36,383	37,954	31,824
Total disposals	109,245	106,273	115,047	100,370
Patents issued:				
General, mechanical, chemical, electrical	70,370	83,215	67,491	64,014
Plants	77	170	146	100
Reissues	222	264	273	228
Total	70,669	83,649	67,910	64,352
Patents withheld for nonpayment of final fee (35 U.S.C. 151)	2,890	2,865	1,830	1,950
Designs:				
Applications filed	6,057	6,358	5,541	5,435
Applications allowed	3,603	3,033	4,100	3,460
Applications abandoned	1,614	1,383	1,681	1,820
Design patents issued	3,097	3,032	3,439	3,197

3. Applications for Patents Filed, Fiscal Years

Year	Inventions	Plants	Reissues	Total	Designs
1954	74,987	90	194	75,271	5,501
1955	78,386	94	230	78,710	5,523
1956	75,420	117	196	75,733	5,322
1957	73,495	99	189	73,783	4,675
1958	76,565	129	262	76,956	4,838
1959	77,978	126	259	78,363	4,994
1960	78,995	117	219	79,331	4,567
1961	80,842	106	223	81,171	4,605
1962	84,864	131	270	85,265	4,963
1963	84,620	149	277	85,046	4,841
1964	87,482	147	207	87,836	5,067
1965	88,908	89	237	89,234	5,319
1966	93,022	103	266	93,391	5,187
1967	88,167	100	241	88,508	4,774
1968	90,252	107	304	90,663	4,889
1969	96,342	103	376	96,821	5,432
1970	100,116	113	344	100,573	5,722
1971	103,733	161	266	104,160	6,057
1972	102,663	166	293	103,122	6,358
1973	100,900	109	382	101,391	5,541

4. Patents Granted, Fiscal Years [1]

Year	Inventions	Plants	Reissues	Total	Designs
1954	38,499	87	167	38,753	2,573
1955	29,473	116	186	29,775	2,533
1956	40,465	88	141	40,694	3,104
1957	44,819	120	163	45,102	2,375
1958	43,407	110	159	43,676	2,572
1959	52,184	128	170	52,482	2,508
1960	50,322	107	178	50,607	2,685
1961	47,222	110	160	47,492	2,488
1962	51,065	88	190	51,343	2,336
1963	53,958	114	215	54,287	2,411
1964	44,050	147	203	44,400	3,019
1965	52,914	127	204	53,245	2,979
1966	66,243	105	238	66,586	3,638
1967	70,028	102	180	70,310	2,840
1968	61,599	67	185	61,851	3,539
1969	61,957	80	201	62,238	2,991
1970	66,339	80	311	66,730	3,401
1971	[2] 70,387	77	222	[2] 70,686	3,097
1972	83,221	170	264	83,655	3,032
1973	[3] 67,552	146	274	[3] 67,972	3,441

[1] Includes withdrawn numbers.
[2] Does not include 1,300 voided numbers.
[3] Does not include 1,356 voided numbers.

5. Patent Applications Pending on June 30, of Year Indicated [1]

Year	Total pending [2]	Awaiting action by examiner [3]	Year	Total pending [2]	Awaiting action by examiner [3]
1954	194,620	116,392	1964	219,691	127,154
1955	221,872	139,931	1965	206,922	147,473
1956	217,536	121,847	1966	209,254	145,101
1957	215,535	106,523	1967	200,739	134,346
1958	207,166	88,804	1968	189,909	108,115
1959	198,248	87,146	1969	[4] 190,558	102,309
1960	195,885	87,122	1970	187,439	79,525
1961	200,934	90,917	1971	184,127	62,492
1962	197397	100,841	1972	181,259	66,461
1963	209,131	117,610	1973	167,603	59,983

[1] Does not include allowed applications and design applications.
[2] Includes applications in preexamining processes.
[3] Includes cases in which Office actions were suspended under rule 103 through 1965.
[4] Revised figure based on inventory adjustment of 3,244 to total pending excluding allowed applications and design applications plus category not previously counted of 2,654.

6. Documentation Activity, Fiscal Years 1969–73

Activity	1969	1970	1971	1972	1973
Classes abolished	1	4	1	4	11
Original patents	8,895	57,713	7,412	20,431	82,942
Cross-reference patents	2,912	65,658	6,122	18,792	63,797
Classes established	4	4	1	3	4
Subclasses	595	1,318	257	782	1,274
Original patents	10,933	54,588	10,645	37,009	59,098
Cross-reference patents	12,359	64,306	13,345	44,219	48,084
Foreign patents	37,000	76,000	10,000	40,000	50,000
Miscellaneous subclasses:					
Established	944	317	285	384	1,073
Original patents	15,937	11,453	2,163	11,874	34,922
Cross-reference patents	11,200	20,117	697	20,658	49,723
Miscellaneous patents transferred	8,640	4,848	2,163	5,683	9,751
Assignment decisions:					
Written	1	2	1,449	6,190	6,437
Oral	6,125	16,199	6,767	*	*
Letters of inquiry answered	534	553	3	64	45

* No longer reported.

7. Pending Trademark Applications as of June 30, 1973

Status	For registration	For renewal	Under section 12(c)	Section 8 affidavits
Preexamination	414	0	0	2,307
Under examination:				
Awaiting action by examiner:				
First action	22,147	1,008	5	754
Amended actions	4,215	0	0	0
Awaiting action by others (i.e., applicant, on appeal, in adversary proceedings, clerical processing)	18,603	179	0	493
Total under examination	44,965	1,187	5	1,247
Total	45,379	1,187	5	3,554
Post examination (includes applications in all phases of publication and issue)	11,138	460	4	.....
Total	56,517	1,647	9	3,554

8. Summary of Trademark Examining Activities, Fiscal Years 1971–73

Item	1971	1972	1973	Annual average 1964-73
Applications for registration filed	32,803	33,741	35,128	30,334
Disposal of trademark applications:				
Applications maturing to registration	23,710	22,875	27,863	22,301
Applications abandoned	6,974	7,656	8,015	6,349
Certificates of registration issued:				
1946 act, principal register	21,046	20,283	24,552	20,011
1946 act, supplemental register	822	779	880	1,033
Total	21,868	21,062	25,432	21,044
Renewal of registration:				
Applications filed	6,189	5,980	5,614	4,788
Applications abandoned	95	107	64	93
Registrations renewed	6,380	5,836	5,398	4,611
Affidavits for benefits under sec. 12(c):				
Affidavits filed	76	46	74	200
Affidavits abandoned	0	0	0	2
Published under sec. 12(c)	112	56	69	238
Affidavits, sec 8:				
Affdavits filed	12,263	13,256	13,605	13,105
Affidavits disposal	11,878	11,883	13,893	11,825

9. Applications for Trademark Registrations, Renewals, and Sec. 12(c) Affidavits, Fiscal Years 1954–73

Year	For registration	For renewal	For benefits under sec 12 (c)	Affidavits received under sec. 8	Year	For registration	For renewal	For benefits under sec 12 (c)	Affidavits received under sec. 8
1954	19,715	3,887	1,626	16,491	1964	25,574	2,824	261	12,055
1955	21,515	3,931	1,287	17,773	1965	26,657	3,049	308	13,923
1956	21,735	3,675	808	12,040	1966	28,438	3,695	518	13,705
1957	21,581	3,638	843	12,873	1967	27,628	3,844	341	11,156
1958	21,770	3,237	556	12,126	1968	28,292	4,089	231	12,116
1959	22,243	3,321	447	11,548	1969	31,268	6,267	90	13,890
1960	23,242	3,972	419	12,573	1970	33,807	6,329	59	14,283
1961	23,169	3,476	423	14,581	1971	32,803	6,189	76	12,263
1962	24,866	3,138	337	14,720	1972	33,741	5,980	46	13,256
1963	24,224	2,604	311	12,752	1973	35,128	5,614	74	13,605

10. Trademarks Registered, Renewed and Published Under Sec. 12(c), Fiscal Years [1] 1954–73

Year	Registered	Renewed	Published under sec. 12(c)	Year	Registered	Renewed	Published under sec. 12(c)
1954	15,197	2,918	1,383	1964	20,689	2,834	329
1955	16,109	4,588	1,544	1965	19,452	2,870	336
1956	21,613	3,315	885	1966	18,671	3,441	497
1957	17,864	4,041	877	1967	20,604	3,820	403
1958	15,979	3,172	555	1968	20,385	3,726	290
1959	17,685	3,249	529	1969	20,306	5,442	182
1960	18,989	3,614	479	1970	21,974	6,370	103
1961	17,406	3,749	451	1971	21,868	6,380	112
1962	15,909	3,071	331	1972	21,062	5,836	56
1963	18,266	2,450	322	1973	25,432	5,398	69

[1] Includes withdrawn numbers.

11. Actions on Petitions to Commissioner

Acceptance of late priority papers	30
Acceptance of late issue fees	679
Access	0
Certificates of corrections	9,335
Deferment of issue	80
Filing date	132
Interference	108
Make special	123
New notice of allowance	20
Public use	11
Reinstatement of appeals	10
Revivals	2,542
Supervisory authority	207
Withdrawals of attorney	1,478
Withdraways from Issue	99
Revocation and Power of Attorney	295
Reopen prosecution under Rule 198	7
Pending Petitions awaiting action	289
Total	15,445

12. Summary of Contested Cases in Patent Office During Fiscal Year 1973

Patent cases before the Board of Appeals:		
Pending July 1, 1972		2,670
Filed July 1, 1972—June 30, 1973:		
Appeals (examiners only)	3,479	
Reconsideration	312	3,791
Total		6,461
Disposals:		
Examiner affirmed	1,738	
Examiner affirmed-in-part	179	
Examiner reversed	390	
Dismissed	14	
Suspended	1	
Withdrawn	277	[1] 2,912
Pending June 30, 1973		3,549
Cases before the Board of Patent Interferences:		
Pending July 1, 1972		620
Filed July 1, 1972—June 30, 1973 Inter partes cases		383
Total		1,003
Disposals		372
Pending June 30, 1973		631

Cases before the Trademark Trial and Appeal Board:

	Ex Parte	Cancel	Concur	Inter Partes Interfer.	Oppositions	Total
Pending July 1, 1972	123	270	8	148	1,257	1,806
Filed July 1, 1972—June 30, 1973:						
Ex parte appeals	366					366
Inter partes cases		279	13	16	1,346	1,654
Total	489	549	21	164	2,603	3,826
Disposals	310	220	13	112	1,160	1,815
Pending June 30, 1973	179	329	8	52	1,443	2,011

[1] Reconsiderations included 313.

13. Cases in Litigation (Courts)

	Administrative review	Patent	Trademark	Total
Supreme Court of the United States—Petitions for writ of certiorari:				
Pending July 1, 1972	0	0	0	0
Filed July 1, 1972—June 30, 1973	1	4	0	5
Total	1	4	0	5
Denied	1	3	0	4
Granted	0	0	0	0
Total	1	3	0	4
Pending June 30, 1973	0	1	0	1
United States Court of Appeals—District of Columbia Circuit:				
Cases Pending July 1, 1972	0	9	0	9
Appeals taken July 1, 1972—June 30, 1973	3	4	0	7
Total	3	13	0	16
Cases disposed of:				
Affirmed	1	4	0	5
Dismissed	0	1	0	1
Affirmed in part	0	2	0	2
Reversed	0	0	0	0
Total	1	7	0	8
Pending June 30, 1973	2	6	0	8
United States District Court for the District of Columbia:				
Pending July 1, 1972	1	60	1	62
Filed July 1, 1972—June 30, 1973	1	16	0	17
Total	2	76	1	79
Cases disposed of:				
Affirmed	0	4	0	4
Affirmed-in-part	0	0	0	0
Reversed	0	0	0	0
Dismissed on:				
Plaintiff's motion	0	1	0	1
Defendant's motion	2	3	0	5
Stipulation of counsel	0	10	0	10
Want of prosecution	0	0	0	0
Remanded	0	0	0	0
Total	2	18	0	20
Pending June 30, 1973	0	54	1	55

Notices of appeals to U.S. Court of Customs and Patent Appeals Received July 1, 1972—June 30, 1973:

Ex parte patents and trademarks = 81 (9 not perfected).
Inter partes patents = 21 (2 not perfected).
Inter partes trademarks = 40 (15 not perfected).

13. Cases in Litigation (Courts)—Continued

	Ex parte		Inter partes		Total
	Patent	Trade-mark	Patent	Trade-mark	
United States Court of Customs and Patents Appeals					
Cases pending July 1, 1972	180	21	54	88	343
Filed July 1, 1972 through June 30 1973	65	9	29	36	139
Total	245	30	83	124	482
Cases disposed of:					
Affirmed	54	1	11	39	105
Affirmed-in-part	10	0	1	1	12
Remanded	20	6	4	12	42
Reversed	2	0	0	0	2
Dismissed:					
On appellant's motion	17	3	2	6	28
Appellees motion	0	0	1	0	1
On want of prosecution	1	1	0	4	6
Joint motion	0	0	1	3	4
Total	104	11	20	65	200
Pending July 1, 1973	141	9	63	59	282

14. Litigation Report, Other Jurisdictions, July 1, 1972–June 30, 1973 (Cases reported)

Month	Patent suits				Trademark suits			
	Filed	Pat's Involved	Decs.	Pat's Involved	Filed	TM's Involved	Decs.	TM's Involved
July	50	59	24	34	36	98	13	28
Aug	49	81	22	27	37	122	18	50
Sept	20	30	20	22	25	99	8	67
Oct	64	76	21	28	24	82	9	21
Nov	70	95	26	36	35	120	28	51
Dec	40	75	30	55	35	70	10	45
Jan	27	49	17	15	7	33	7	20
Feb	80	135	17	28	40	110	15	39
Mar	54	92	17	22	30	74	12	27
Apr	47	89	17	20	16	36	13	25
May	56	74	20	25	40	130	12	24
June	56	74	16	23	19	35	7	24
Total	613	929	247	335	344	1,009	152	421

15. Summary of Patent Office Services Furnished for Fees or Without Charge to the Public and Government Agencies During Fiscal Year 1973

Item or service provided	Total supplied
Prints furnished: Manuscripts, patents, publications, etc	15,573,916
Certificates prepared	268,176
Assignments:	
Abstract of title and title searches	791
Title reports	38,388
Instruments recorded	84,846
Patents and trademarks:	
Orders	5,304,046
Foreign exchange	3,081,629
Library subscriptions	1,519,392
RPU	758,958
Archives	202,643
Total	10,866,668
Drawings and corrections	14,909

16. Patents Issued to Residents of United States, Calendar Years 1963–72) excludes designs, plants and reissues)

States and territories	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Alabama	178	153	236	232	248	236	258	254	308	220
Alaska	7	9	13	14	19	12	22	28	27	24
American Samoa					2	3	1	2	4	5
Arizona	190	188	249	290	356	279	301	308	376	391
Arkansas	69	63	85	74	56	54	77	94	97	80
California	4,358	4,603	6,304	6,777	6,264	5,630	6,372	5,960	7,301	6,522
Canal Zone					13	7	7	12	14	18
Colorado	233	222	333	321	325	327	412	371	509	493
Connecticut	1,136	1,305	1,742	1,859	1,677	1,567	1,664	1,569	1,818	1,594
Delaware	359	373	479	608	595	558	564	530	511	697
District of Columbia	145	157	181	161	236	154	268	208	243	103
Florida	528	590	725	790	832	794	769	789	1,000	937
Georgia	186	174	276	284	310	294	300	251	372	281
Guam			1		5	2	2	9	4	5
Hawaii	20	20	13	25	19	22	40	46	36	25
Idaho	53	40	46	52	48	56	65	67	68	79
Illinois	3,288	3,450	4,508	4,561	4,161	3,712	3,968	3,701	4,398	3,962
Indiana	994	979	1,286	1,375	2,219	1,100	1,151	1,109	1,361	1,185
Iowa	286	341	490	443	395	321	354	353	446	425
Kansas	181	211	270	314	273	263	257	274	286	290
Kentucky	253	235	302	355	381	308	363	302	385	285
Louisiana	249	221	289	322	367	327	308	308	377	396
Maine	48	61	62	72	80	67	50	70	91	81
Maryland	692	760	1,013	1,073	1,058	915	1,145	903	1,197	1,046
Massachusetts	1,647	1,713	2,095	2,386	2,149	1,911	2,190	2,086	2,627	2,366
Michigan	2,347	2,433	3,135	3,494	3,164	2,815	3,001	2,689	3,257	3,028
Minnesota	710	724	982	1,069	985	882	1,068	974	1,082	968
Mississippi	48	45	50	50	65	47	76	57	81	68
Missouri	559	567	685	864	827	693	810	647	826	762
Montana	32	44	26	37	57	52	54	37	46	53
Nebraska	103	85	115	144	161	105	102	97	142	101

16. Patents Issued to Residents of United States, Calendar Years 1963–72 (excludes designs, plants and reissues)—Continued

States and territories	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Nevada	34	28	40	47	50	38	49	49	80	58
New Hampshire	109	92	135	153	157	114	154	174	216	155
New Jersey	2,850	3,132	3,987	4,512	4,370	3,768	4,369	4,126	4,495	4,579
New Mexico	77	103	108	115	120	88	115	71	108	115
New York	4,432	4,579	5,812	6,202	5,503	4,955	5,541	5,314	6,108	5,548
North Carolina	276	315	405	467	586	494	495	462	585	580
North Dakota	40	36	32	40	46	47	51	38	49	33
Ohio	2,918	2,665	3,574	3,812	3,482	3,208	3,403	3,110	3,782	3,318
Oklahoma	624	579	865	937	878	814	789	716	845	809
Oregon	222	243	296	329	319	271	309	280	411	342
Pennsylvania	2,753	2,854	3,901	4,131	3,824	3,378	3,726	3,527	3,943	3,803
Puerto Rico	7	8	15	19	23	19	25	39	45	32
Rhode Island	161	193	198	247	237	197	222	208	229	221
South Carolina	123	127	158	200	222	168	222	179	264	266
South Dakota	37	30	37	34	51	38	35	42	61	38
Tennessee	321	273	367	489	435	417	430	359	380	344
Texas	1,340	1,271	1,578	1,806	1,769	1,770	1,900	1,831	1,992	2,034
Utah	99	99	136	155	128	120	160	150	209	219
Vermont	30	40	57	48	47	61	65	63	128	77
Virginia	408	449	656	738	781	660	658	609	740	711
Virgin Islands	.....	1	.....	1	2	11	18	15	19	23
Washington	337	361	448	506	445	391	480	397	525	447
West Virginia	177	188	218	266	245	209	180	165	149	143
Wisconsin	883	947	1,277	1,303	1,171	1,000	1,035	1,013	1,274	1,093
Wyoming	19	25	35	24	29	31	28	29	47	29
U.S. Air Force	.....	5	.....	3	.....	2	4	6	6	5
U.S. Army	.....	.....	1	.....	2	.....	.....	.....	7	1
U.S. Navy	.....	1	5	4	5	.....	3	1	1	2
Total	37,176	38,410	50,332	54,634	51,274	45,782	50,395	47,073	55,988	51,515

17. United States Patent Applications Filed by Residents of Foreign Countries, Calendar Years 1968–72 (Includes reissues, excludes plants and designs)

Country	1968	1969	1970*	1971	1972
Algeria		2		1	
Argentina	45	41	52	49	54
Australia	313	308	293	324	389
Austria	286	337	333	369	359
Belgium	384	377	330	387	404
Bermuda	2	1	1	2	1
Bolivia	1	1	1		
Brazil	29	22	30	51	46
British West Indies	3	9	14	1	31
Bulgaria	10	27	16	20	28
Cameroon		1			
Canada	1,558	1,707	1,843	2,025	1,966
Ceylon					2
Chile	6	10	6	9	4
China, Republic of	3	19	27	28	40
Colombia	1	9	4		10
Congo (Brazzavville)		1			
Costa Rica	1	2			2
Cuba		1	2		
Cyprus					
Czechoslavakia	174	218	134	166	169
Denmark	195	221	211	275	241
Dominican Republic					
Ecuador		1			3
El Salvador		3			
Ethiopia		2	1		
Finland	94	103	125	154	159
France	2,522	2,821	2,625	2,987	3,122
German Democratic Rep.					18
Germany, Federal Republic of	6,455	7,405	7,798	7,772	7,782
Greece	19	17	16	15	20
Guatemala		2	2	1	1
Haiti	1	1			
Honduras			2		
Hong Kong		24	23	25	13
Hungary	54	70	80	88	103
Iceland		4	2		
India	13	30	21	22	21
Indonesia		3		1	1
Iran		4	1	4	2
Ireland	29	44	44	33	26
Israel	73	87	90	120	143
Italy	960	1,031	1,105	1,160	1,162
Jamaica	4	4	1		
Japan	4,051	5,430	6,093	7,418	6,831
Jordan	1	1	1		
Kenya		1	2		
Korea	4	11	13	4	19
Kuwait		1			
Lebanon		6		2	2
Liberia		2			
Libya			5		
Liechtenstein	13	27	25	23	11
Luxembourg		14	16	11	14
Malaysia			2	1	
Mali		1			

17. United States Patent Applications Filed by Residents of Foreign Countries, Calendar Years 1968–72 (Includes reissues, excludes plants and designs)—Continued

Country	1968	1969	1970*	1971	1972
Malta			1		
Mexico	177	74	73	87	98
Monaco	1	7	2		4
Morocco			1		
Netherlands	790	899	886	1,017	916
New Zealand	22	34	38	54	49
Nicaragua			2		
Nigeria		2			
Norway	95	107	130	146	115
Pakistan	1		2		
Panama		4	4		3
Paraguay		2	1		
Peru	7	7	4	5	5
Philippines	9	13	17	12	8
Poland	55	59	45	51	35
Portugal	15	13	10	9	7
Rhodesia	1	2	4		
Romania	53	59	45	53	65
Saudi Arabia	1	5			
Senegal		5			
Singapore		2		5	6
South Africa, Republic of	102	115	98	149	145
Spain	133	145	123	156	138
Sudan		2			
Sweden	941	1,070	957	1,148	1,078
Switzerland	1,551	1,698	1,770	1,848	1,963
Tanzania		17	1		
Thailand	1	3		14	
Trinidad & Tobago		1		2	3
Turkey	1	6	5	3	3
Uganda		2	1		
Union of Soviet Socialist Republics	329	438	445	578	653
United Arab Republic	17			1	
United Kingdom	4,660	5,216	4,746	4,734	4,811
Uruguay	1	7	3	5	2
Venezuela	6	14	11	5	19
Viet Nam (South)	1				2
Yugoslavia	17	12	14	10	20
Zambia		3	3		2
Total	26,291	30,507	30,832	33,640	33,355

* Revised.

18. Patents Issued by the United States to Residents of Foreign Countries, Calendar Years 1963–72 (excludes plants, designs, and reissues)

Country	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Algeria	3		2			1		1		1
Argentina	19	27	18	20	16	18	17	24	22	29
Australia	69	80	110	110	151	119	155	143	200	182
Austria	86	91	143	128	151	160	191	191	250	271
Belgium	85	131	184	185	176	169	220	233	305	319
Bermuda	3	2	3	2	1		3	2	4	6
Bolivia					1	1	2	8	6	6
Brazil	17	10	11	17	12	13	18	16	14	16
British West Indies	5	8	3	1	4	4	9	1	12	4
Bulgaria		1	1		5	1	7	9	11	10
Cameroon				1						1
Canada	606	648	853	938	991	897	994	1,065	1,327	1,244
Ceylon	1						1			
Chile	1	1	3	1	3	2	8	2	8	4
China, Republic of	4	3	4	2	9	5	5	6	15	8
Colombia	2	3	5	8	4	2	5	6	7	8
Congo (Brazzaville)		3						2		
Costa Rica	1		2		2		1		2	
Cuba	8	1	1					1	2	1
Cyprus						1		1		
Czechoslovakia	44	34	52	38	96	96	132	118	154	110
Dahomey								1		
Denmark	70	63	88	101	123	82	144	138	169	173
Dominican Republic		2	1							1
Ecuador	1			2	2		4	2	3	2
El Salvador	1		1	1	4	2	3	1	1	
Ethiopia								1		
Finland	18	9	22	27	34	31	43	46	59	69
France	854	1,013	1,372	1,436	1,558	1,446	1,808	1,732	2,214	2,231
Germany, Federal Republic of	2,338	2,420	3,388	3,981	3,766	3,442	4,523	4,434	5,521	5,728
Greece	7	1	5	5	13	3	11	8	6	16
Guatemala	2			5	5		4	2	3	

18. Patents Issued by the United States to Residents of Foreign Countries, Calendar Years 1963–72 (excludes plants, designs, and reissues)—Continued

Country	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Haiti				2	2	2	2	1	3	
Honduras				1		1	5	3	1	1
Hong Kong	6	5	6	8	12	7	7	8	20	7
Hungary	13	20	20	31	23	21	22	37	38	48
Iceland		2	3	2	1	4	1	7	9	7
India	4	7	8	5	10	15	18	16	10	19
Indonesia	1			5	12	25		1	2	2
Iran	1	1	1	2	3	1	1	4	3	3
Ireland	1	10	5	9	8	10	13	12	29	18
Israel	20	26	33	45	53	38	61	46	54	54
Italy	345	308	414	429	471	477	556	572	726	838
Jamaica					1	1		1		4
Japan	407	545	919	1,122	1,424	1,464	2,152	2,625	4,033	5,154
Jordan										1
Kenya		3		2	1	2	1	4	1	
Korea		3	2	2		2		3	2	7
Kuwait							1			
Lebanon	4			1		3	2	1	4	1
Liberia						1				
Libya	1		1							1
Liechtenstein	5	10	14	12	13	15	14	23	28	10
Luxembourg	5	4	3	6	7	7	2	1	5	8
Madagascar								1		
Malaysia	1		2	2				1		
Mauritania								1		
Mexico	92	72	87	99	43	40	68	43	64	42
Monaco	1	2	2	6	3	4	4	2	4	2
Morocco	3	3	6	6	3	4	1	2		3
Netherlands	329	356	519	482	507	476	558	543	695	676
New Zealand	12	12	17	10	15	13	16	14	17	26
Nicaragua				2	4	2	2	1	2	2
Nigeria					2	2	1	1	4	

Norway	33	43	52	59	49	49	69	68	77	88
Pakistan	2		1	2	2		1	1		
Panama	2	2	1	1				1	1	4
Paraguay										1
Peru	1	5	5	2	5	5	5	6	3	4
Philippines, Republic of	7	5	2	4	1	2	4	2	5	11
Poland	3	1	9	10	12	25	31	33	31	21
Portugal	3	2	2	4	1	7	6	3	7	7
Rhodesia	5	3	4	2	2		3		5	1
Rumania	2	2	2	4	6	21	21	37	35	33
Saudi Arabia		1		1		1		3	1	2
Senegal	1									
Singapore					1	1	2		4	4
South Africa, Republic of	30	34	69	48	52	35	65	49	69	53
Southwest Africa								1	2	
Spain	26	19	49	50	46	48	59	57	74	60
Sudan						2		2	1	1
Sweden	386	368	562	537	574	569	673	627	843	775
Switzerland	668	667	862	983	948	822	1,058	1,112	1,281	1,305
Syria										1
Tanzania							3		3	1
Thailand									1	1
Trinidad & Tobago		1		2		1	1	2	3	3
Tunisia	1		1		1					1
Turkey		2		2	4	3	1		3	3
Uganda				1		1				
Union of Soviet Socialist Republics	15	12	28	66	115	95	159	218	326	355
United Arab Republic		1	1	3	4	1			2	3
United Kingdom	1,810	1,839	2,574	2,677	2,799	2,481	3,175	2,952	3,456	3,164
Uruguay	3	3	3	2	1	1		1	2	
Venezuela	9	12	11	7	5	13	6	3	13	7
Viet Nam (South)							1		1	2
Yugoslavia	2	4	3	4	4	4	3	6	9	6
Zambia				1	1			2	1	2
Total	8,505	8,966	12,525	13,772	14,378	13,320	17,162	17,354	22,328	23,293

19. United States Trademark Applications and Registrations, Foreign Residents, Calendar Years 1970–72

	Applications			Registrations		
	1970	1971	1972	1970	1971	1972
Argentina	17	17	25	7	2	13
Australia	21	22	41	14	17	20
Austria	23	30	28	13	11	13
Bahamas	3				1	
Belgium	35	24	24	16	19	17
Bermuda		1				
Brazil	12	12	17	6	2	10
British West Indies		4	13			2
Bulgaria						
Canada	419	389	318	181	196	272
Central African Republic						
Ceylon					1	
Chile		3		1		1
China (National Republic)	1	1	5	1		1
Colombia	3	7	1		1	
Costa Rica	2	1		1	1	
Cuba						
Cyprus		1				
Czechoslovakia	10	5	6	7	2	7
Denmark	64	47	40	16	30	31
Dominican Republic		1	1	1		
Ecuador						
El Salvador	2					
Finland	19	12	14	9	7	21
France	329	407	337	220	176	227
Germany, Federal Republic of	409	408	378	297	271	258
Greece	9	6		5		4
Guatemala		1				
Honduras						
Hong Kong	11	12	11	13	6	4
Hungary	2		2			2
Iceland			1			2
India	1		2	1	1	
Iran		1				
Ireland	3	6	17	28	10	4
Israel	5	8	18	3	1	2
Italy	162	137	120	80	107	87
Jamaica				1	3	
Japan	418	365	288	196	214	293
Kenya					1	
Korea		2	5	1	1	2
Kuwait						
Lebanon		2				
Liechtenstein	8	4	11	5	4	6
Luxembourg	1	2	2	2	1	1
Mexico	29	29	44	33	9	18
Monaco		3	2	1		2
Morocco				1		
Netherlands	115	61	67	51	50	47
New Zealand	5	11	6	2	4	3
Norway	16	13	12	9	6	9
Pakistan				1		
Panama	9	1	5	2	6	
Peru	2					1

19. United States Trademark Applications and Registrations, Foreign Residents, Calendar Years 1970–72—Continued

	Applications			Registrations		
	1970	1971	1972	1970	1971	1972
Philippines	8	2	3	2	2	2
Poland	5	3	3	8	4	2
Portugal	3	8	16	5	1	5
Rumania			1			
Saudi Arabia		1				1
Singapore	7	1	2	2		2
South Africa, Republic of	11	17	22	8	7	10
Rhodesia						
Spain	72	110	91	51	42	44
Sweden	92	78	85	45	57	55
Switzerland	205	213	150	120	135	125
Tanzania						1
Thailand						
Trinidad & Tobago		1				
Turkey		1				
Union of Soviet Socialist Republics			1		1	
United Arab Republic			2			
United Kingdom	478	432	302	264	297	329
Uruguay						
Venezuela	3	1		2	1	1
Yugoslavia	4				1	2
Total	3,053	2,924	2,539	1,733	1,709	1,960

20. Income From Fees, Fiscal Years 1969–73

(In Thousands of Dollars)

	1969	1970	1971	1972	1973
Patent issue fee, including printing	9,067	9,000	10,490	10,436	9,491
Patent application filing fee, including extra claims	8,332	8,720	8,880	8,838	8,432
Printed copies, U.S. Patents, Designs, and Trademarks	2,564	2,588	2,358	2,467	2,145
Recording assignments	1,651	1,801	1,711	1,851	1,665
Trademark application filing fee	1,154	1,235	1,229	1,243	1,231
Reproduction of records	1,126	1,159	1,063	1,065	1,253
Appeals, including briefs	582	677	636	757	700
Making, mounting, correction, and comparison of drawings	142	138	139	155	182
Trademark renewal filing fee	154	159	155	150	137
Design application filing fee	109	115	123	129	116
Filing of affidavits pertaining to use or non-use of trademarks [1]	*	*	34	127	139
Special service on orders	122	144	166	122	110
Certification of records	128	136	124	120	64
Design issue fee	88	113	95	91	101
Disclosure documents filed [2]	*	23	34	60	83
Trademarks oppositions and cancellations	37	38	40	41	44
Subscription service for copies	35	37	38	39	31
Petitions fees	25	32	38	37	40
Attorney registrations and certificates	17	41	29	26	25
Patent reissue filing fee, including extra claims	26	28	28	25	30
Certificates of correction	*	15	15	19	21
Patent and Trademark disclaimers	*	*	*	18	19
Other fees [3]	97	79	81	67	60
Total	25,456	26,278	27,506	27,883	26,119

[1] Includes fees first applicable in FY 1971 under P.L. 89-83.
[2] Fee was not in effect until May 1969.
[3] Approximately 40 types of fees amounting to less than $15,000 for each type.
* Less than $15,000.

21. End of Year Employment, Fiscal Years 1969–73

	1969	1970	1971	1972	1973
Examination of patent applications....	1,858	1,929	1,838	1,916	1,938
Examination of trademark applications..	137	153	142	151	166
Collection, assembly and dissemination of technical and legal patent and trademark information	703	703	702	769	895
Total	2,698	2,785	2,682	2,836	2,999
Patent professional	1,248	1,303	1,242	1,276	1,255
Trademark professional	55	55	55	57	67
All other	1,395	1,427	1,385	1,503	1,677
Total	2,698	2,785	2,682	2,836	2,999

22. Average Number of All Employees, Fiscal Years 1969–73

	1969	1970	1971	1972	1973
Examination of Patent Applications....	1,796	1,796	1,836	1,796	1,848
Examination of trademark applications..	132	133	140	136	149
Collection, assembly and dissemination of technical and legal patent and trademark information	661	640	680	668	831
Total	2,589	2,569	2,656	2,600	2,828
Patent professional	1,267	1,258	1,216	1,214	1,204
Trademark professional	54	53	51	53	58
All other	1,268	1,258	1,389	1,333	1,566
Total	2,589	2,569	2,656	2,600	2,828

23. Operating Cost, Fiscal Years 1969–73

(In Thousands of Dollars)

	1969	1970	1971	1972	1973
Examination of patent applications....	26,206	30,356	32,732	34,669	39,219
Examination of trademark applications..	1,732	2,007	2,271	2,523	2,880
Collection, assembly and dissemination of technical and legal patent and trademark information	14,638	17,004	20,120	24,112	22,437
Total	42,576	49,367	55,123	61,304	64,536
Personnel compensation	29,938	34,307	37,079	39,839	45,658
Personnel benefits	2,323	2,643	3,075	3,357	3,484
Printing and reproduction	6,652	8,140	11,380	14,893	10,441
Other costs	3,663	4,277	3,589	3,215	4,953
Total	42,576	49,367	55,123	61,304	64,536

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